

IN THE CLAIMS:

1. (Currently Amended) A fluid flow control valve having an input and an output for maintaining a constant fluid flow at the output regardless of fluid pressure at the input, the control valve comprising:

an inlet socket having a wall, transverse to fluid flow through the inlet socket, with a plurality of orifices, one of the orifices being larger than the others and on the longitudinal axis of the inlet socket ~~an orifice along a longitudinal axis of the inlet socket for permitting fluid flow through the inlet socket;~~

an outlet socket having a wall, transverse to fluid flow through the outlet socket, with a plurality of orifices, one of the orifices being larger than the others and on the longitudinal axis of the outlet socket, the outlet socket attached to the inlet socket forming a chamber between the wall of the inlet socket and the wall of the outlet socket ~~attached to the inlet socket having an orifice along a longitudinal axis of the outlet socket for permitting fluid flow from the inlet socket through the outlet socket;~~

a pressure check piston having a first and second end with [and] a fluid flow orifice between the first and second end, the piston slidably engaging the longitudinal axis orifice in the wall of the inlet socket [at the first end] and slidably engaging the longitudinal axis orifice in the wall of the outlet socket [at the second end]; and

a spring biasing the pressure check piston towards the inlet socket.

2. (Original) The fluid flow control valve of claim 1 further comprising a pressure seal located around the orifice in the outlet socket.

3. (Currently Amended) The fluid flow control valve of claim 2 wherein the second end of the pressure check piston is adapted to close the plurality of orifices in the wall of the outlet socket when the second end of the pressure check piston is pressed against the pressure seal.

4. (Currently Amended) The fluid flow control valve of claim 1 wherein fluid flows through the plurality of orifices in the wall of the inlet socket, the fluid flow path orifice in the pressure check piston, and the plurality of orifices in the wall of the outlet socket, when the pressure check piston is biased toward the inlet socket by the spring.

5. (Currently Amended) The fluid flow control valve of claim 1 wherein the [second] first end of the pressure check piston is adapted to be impacted by fluid flow through the control valve.

6. (Original) The fluid flow control valve of claim 5 wherein the spring biasing the pressure check piston towards the inlet socket is adapted to be compressed by fluid flow impacting the pressure check piston.

7. (Currently Amended) The fluid flow control valve of claim 6 wherein [the] fluid flows through the fluid flow path orifice in the pressure check piston when the fluid flow impacting the pressure check piston compresses the spring.

8. (Original) The fluid flow control valve of claim 7 further comprising a pressure seal located around the orifice in the outlet socket.

9. (Currently Amended) The fluid flow control valve of claim 8 wherein the second end of the pressure check piston is adapted to close the plurality of orifices in the wall of the outlet socket when the second end of the pressure check piston is pressed against the pressure seal by fluid flow impacting the pressure check piston at the first end.

10-15. (Cancelled)

16. (New) A fluid flow control valve having a housing with a fluid input and a fluid output, for maintaining a constant fluid flow at the output in spite of an increase or decrease in fluid pressure at the input, the control valve comprising:

a first wall, transverse to fluid flow through the housing at the inlet end of the housing, the wall having a plurality of orifices, one of the orifices being larger than the other and on the longitudinal axis of the housing;

a second wall, transverse to fluid flow through the housing at the outlet end of the housing, the wall having a plurality of orifices, one of the orifices being larger than the other and on the longitudinal axis of the housing;

a pressure check piston having a first and second end and a fluid flow path between the first and second end, the piston slidably engaging the longitudinal axis orifice in the first wall at the first end and slidably engaging the longitudinal axis orifice in the second wall at the second end; and

a spring biasing the pressure check piston towards the inlet end of the housing.

17. (New) The fluid flow control valve of claim 16 further comprising a pressure seal around the orifice in the second wall not engaged by the pressure check piston.

18. (New) The fluid flow control valve of claim 17 wherein the second end of the pressure check piston is adapted to close the orifice when the second end of the pressure check piston is pressed against the pressure seal.
19. (New) The fluid flow control valve of Claim 1 wherein the fluid flow path orifice of the pressure check piston has a nozzle cross-section.
20. (New) The fluid flow control valve of Claim 16 wherein the fluid flow path orifice of the pressure check piston has a nozzle cross-section.